



SACRAMENTO METROPOLITAN FIRE PROTECTION DISTRICT

Operation Division

Class "A" Foam Concentrate Specification

Description: The Class "A" Foam Concentrate shall be a non-corrosive, non-toxic, biodegradable foam concentrate. When mixed with water in the correct proportion, it changes the properties of water. It reduces the surface tension of the water, and produces foam, which allows the water to cling to horizontal surfaces without run off. This allows the water to absorb more heat and provides greater penetration into Class "A" fuels.

Features:

- Water treated with the Class "A" foam concentrate shall be 3 to 5 times more effective on Class "A" fires than untreated water.
- Water treated with the Class "A" foam concentrate will wet Class "A" fuels up to 20 times more efficiently than untreated water.
- Can be used with non-air-aspirating or aspirating Handline nozzles.
- Can be use with either fresh or salt water.
- Suitable for use with compressed Air Foam Systems.
- Suitable for use with helicopter Bambi bucket.
- Suitable for use on rubber (tires), coal, paper and many other types of Class "A" fuels.
- Suitable for use through medium expansion nozzles on Class "A" or contained Class "B" flammable liquids.
- Suitable for use with high expansion foam generators.
- Manufactured with materials that do not appear or are listed on any federal register under Sara Title III, Sec.313 of the Federal Superfund and Emergency Planning Regulations.

Recommended Dilution Rates

- Helicopter Bambi Bucket. .3%-.5%
- Handline, Air- Aspirating nozzle .3%-.5%
- Handline, non – air- aspirating nozzle. .3%-.6%
- Compressed air foam system .1%-.3%

Note: The above rates vary depending on the quality of the foam blanket required.

Foaming Properties:

The foaming properties of the Class "A" concentrate will be dependent on many different factors. Which include:

- Type of discharge device.
- System operating pressure.
- Amount of foam concentrate in water
- Shall be compatible with current foam in use.

Proportioning Equipment:

- Hypro Corporation Proportioning System
- Pierce Manufacturing Husky Systems
- Balanced Pressure Pump System
- In-line Eductor.

Proportioning Equipment cont. :

- Around the Pump Proportioners
- Helicopter Bambi Bucket
- Compressed Air Foam Systems
- High Expansion Foam Generators

Typical Properties at 77° F (25°C):

Appearance.....	Pale Amber Liquid
Specific Gravity.....	1.010
PH.....	7.5
Surface Tension@	.3% Solution 25.5 Dynes/cm
	.5% Solution 26.1 Dynes/cm
	.7% Solution 24.5 Dynes/cm
	1.0% Solution 24.8 Dynes/cm
Viscosity.....	20 cps

Product Life:

The Class "A" Foam shall have a shelf life of 20+ years if kept in the original unopened and airtight container and stored within the temperature range of 32° F - 120°F, and shall be compatible with Chemguard CA Plus.

Shipping Costs:

All orders over 700 gallons shall be shipped without cost to the District.